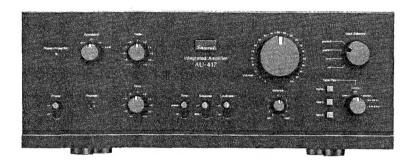


SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER

SANSUI AU-417



SPECIFICATIONS

Power output	
Min. RMS, both channels driven, from 20 to 20,	.000 Hz. with
no more than 0.02 % total harmonic distortion	,,,
65 watts per channel into 8 ohms	
Load impedance 8 ohms	
Total harmonic distortion	
less than 0.02 % at or be	low rated
min. RMS power output	
Intermodulation distortion (70 Hz : 7 kHz = 4:1 SM	
less than 0.02 % at or be	
min. RMS power output	
Frequency response (at 1 watt)	
	3 40
Damping factor (1 kHz, both channels driven)	-5 dB
PLAA curve deviation (PHONO, 20 Hz to 20 Hz)	
RIAA curve deviation (PHONO, 20 Hz to 20 kHz)	
+0.2 dB, -0.2 dB	
Input sensitivity and impedance (1 kHz, for rated p	ower output)
PHONO 2.5 mV/47 kilohms	
(Max. input capability; 300 mV at 1 kHz, less	than 0.01 %
total harmonic distortion)	
AUX, TUNER, TAPE PLAY	
150 mV/47 kilohms	
Output level and impedance (1,000 Hz)	
TAPE REC (pin jack). 150 mV into 47 kilohms	s/600 ohms
Channel separation (1 kHz, at rated power output)	
PHONO 60 dB	
AUX, TUNER, TAPE PLAY	
65 dB	
Hum and noise (short-circuit, A-network)	
PHONO 80 dB	
AUX, TUNER, TAPE PLAY	
100 dB	
Controls	
BASS ±10 dB (50 Hz)	
TREBLE ±10 dB (15 kHz)	
SUBSONIC3 dB (16 Hz), 6 dB/oct	t
LOUDNESS (VOLUME control: -30 dB positio	(n)
9 dB at 50 Hz	,
7 dB at 10 kHz	
Power requirements	
Power voltage 100, 120, 220, 240 V (5	0/60 H=/
For U.S.A. & Canada	0/00 HZ)
120 V (60 Hz)	
Power consumption	
Maximum consumption	
Based consumption 300 watts	
Rated consumption	
200 watts 240 VA	
Dimensions 430 mm (16-15/16") W	
168 mm (6-5/8") H	
395 mm (15-9/16") D	
Weight 12.2 kg (26.9 lbs) net	
14.3 kg (31.5 lbs) packet	d

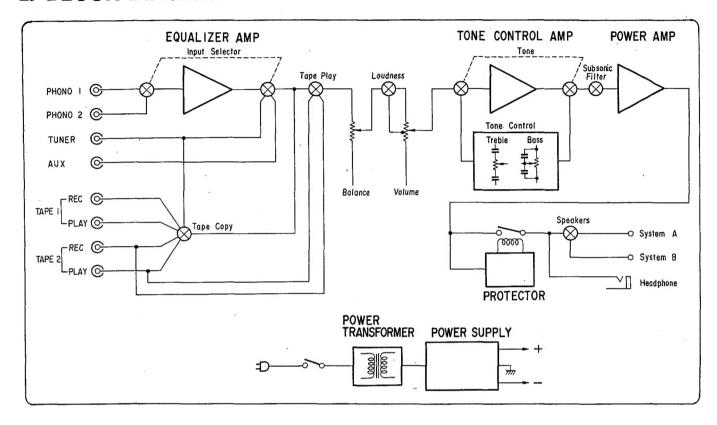
 Design and specifications subject to changes without notice for improvements.



SANSUI ELECTRIC CO., LTD.



1. BLOCK DIAGRAM



2. ADJUSTMENTS

2-1. Driver Circuit Board Adjustments (See the picture of top view on page 7.)

Note: 1. Master Volume Minimum

2. Room Temperature 18°C ~ 28°C

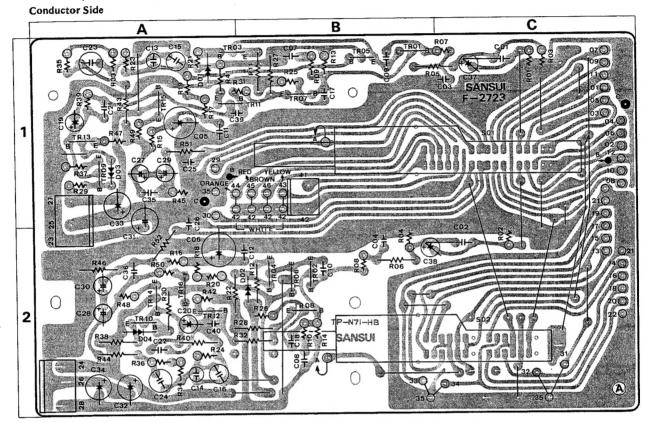
3. For adjustment, run the unit for more than 3 minutes after the power is switched on.

						•
STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	DC 0V L-CH	DC Volt Meter	Speaker Terminal	F-2721 VR01	DC 0V ±5 mV	
2.	DC 0V R-CH	Same as above	Same as above	F-2722 VR01	DC 0V ±5 mV	
3.	Bias Current L-CH	Same as above	TP Terminal (+) () of F-2721	F-2721 VR03	DC 20 mV ±1 mV	By turning VR03 counterclock- wise, the bias current is de-
4.	Bias Current R-CH	Same as above	TP Terminal (+) (-) of F-2722	F-2722 VR03	DC 20 mV ±1 mV	creased gradually.

3. PARTS LOCATION & PARTS LIST

3-1. F-2723 Equalizer Amp Circuit Board (Stock No. 7551381)

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

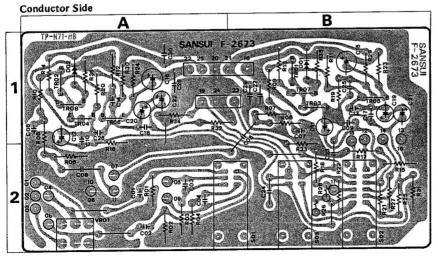


Parts Lis	st		
Parts No.	Stock No.	Description	Position
Transistor	s		
TR01.02	0300900, 1	2SA906 G, H	1B.2B
TR03.04	0300470, 1	2SA726 F,G	1A.2B
TR05,06	0300900, 1	2SA906 G, H	1B.2B
TR07,08	0306290.1	2SC1400 (1) E, U	1B.2B
TR09, 10	0300890.1	2SA750 (3) E.U	1A.2A
TR11, 12	0306290.1	2SC1400 (1) E, U	1A.2A
	0306290, 1	2SC1400 (1) E.U	1A.2A
TR13,14		2SA750 (3) E.U	1A.2A
TR 15, 16	0300890, 1	25A/50 (3) E. U	1A.ZA

Parts No.	Stock No.	Description	Position
•Varistors			
D 01,02	0340150	MV-12	1A.2B
D 03,04	0340150	MV-12	1A.2A
C 01.02	0602109	1.0µF 100WV M.C.	1C.2C
C 07.08	0621121	120pF 50V P.C.	1B.2B
C 13, 14	0620151	150pF 50V P.C.	1A.2A
C 15, 16	0625272	2700pF 50WV P.C.	1A.2A
C 23, 24	0625103	10000pF 50WV P.C.	1A.2A

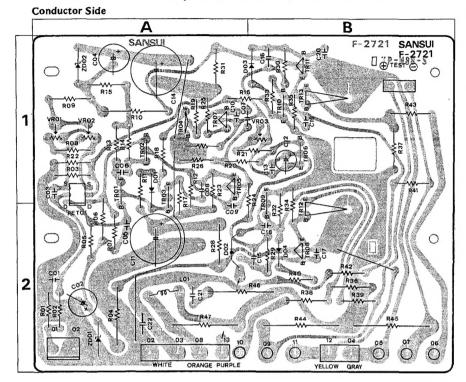
Parts No. Stock F		Stock No.	o. Description	
В	17, 18	0231561	560Ω 1/2W M.R.	1A.2A
	23, 24	0231273	27kΩ 1/2W M.R.	1A.2A
	35,36	0231304	300kΩ 1/2W M.R.	1A.2A
	47.48	0193820	82Ω 1/4W F.R.	1A.2A
	49,50	0193820	82Ω 1/4W F.R.	1A.2A
S	01	1190420	Input Selector Switch	1B, C
s	02	1190410	Tape Copy Selector Switch	2B, C

3-2. F-2673 Control Amp Circuit Board (Stock No.7562621)



Parts No.	Stock No.	Description .	Position
Transisto	rs		
TR01,02	0306010, 1	2SC1222 (2) U, E	1B.1A
TR03.04	0306010, 1	2SC1222 (2) U, E	1B.1A
TR05,06	0300890,1	2SA750 (3) E, U	1B.1A
TR07,08	0306010, 1	2SC1222 (2) U, E	1B.1A
● Varistor			
D 01,02	0340150	MV-12	1B.1A
C 01,02	0620431	430pF 50V P.C.	2A
C 05,06	0602338	0.33µF 100WV M.C.	1B.2A
VR01	1015270, 1	250kΩ (M.N) x 2 Balance VR	2A
S 01	1171120	Loudness Switch	2A, B
S 02	1171150	Tone Defeat Switch	2B
S 03	1171120	Subsonic Filter Switch	2B

3-3. F-2721 L-ch Driver Amp Circuit Board (Stock No. 7572111)



Parts List Parts No. Stock No. Description Position Transistors 0306290, 1 0306290, 1 0300890, 1 0300791, 2 0305951, 2 0306401, 2 0305951, 2 2SC1400 (1) E, U 2SC1400 (1) E, U 2SA750 (3) E, U 2SA989 B, V 2SC945 Q, P 2SC1904 B, V 2SC945 Q, P 2SC945 M, L, K 2SB537 M, L, K TR01 TR02 TR03 TR05 TR06 TR07 TR09 1A 1A 1A 1B 1A.2B 1B.2B 1B.2B TR 12 TR 13 0303271 0370311,2 2SK129 L, M 1,2A 1A.2A 2B D 01,02 D 04 0311160 1S2473D 1S2473D 0316060 EQA01-22R 1A.2A C 01 C 05 C 07 100pF 50V P.C. 330pF 50V P.C. 5pF 50V C.C. 0621101 2A 2A 1A, B 0620331 0669505 2.7kΩ 2W N.I.R. 3.9kΩ 1/2W N.I.R. 2.7kΩ 2W N.I.R. 1.2kΩ 1/2W N.I.R. 150Ω 1/4W F.R. 33Ω 1/2W N.I.R. 220Ω 1/2W N.I.R. 4.7Ω 1/2W N.I.R. 0.33Ω 5W Ce.R. 10Ω 2W N.I.R. 2.2Ω 2W N.I.R. R 04 R 09 R 10 R 17, 19 R 23, 25 R 28, 31 R 36, 37 R 38, 43 R 44, 45 R 46 R 47 0212272 2A 1A 1A 1A 1A 2B.1B 2B.1B 2B.1B 2B,2A 0212272 0200392 0212272 0210122 0191151 0210330 0210221 0210221 0210479 0135338 0212100 0212229 L 01 4210290 1.5µH RF Coil 2A VR01 1033570 100Ω (B) DC 0V 1A Adjust VR 1kΩ (B) Bias Current Adjust VR

1B

Position

VR03

Parts List Parts No.

1035310

Stock No.

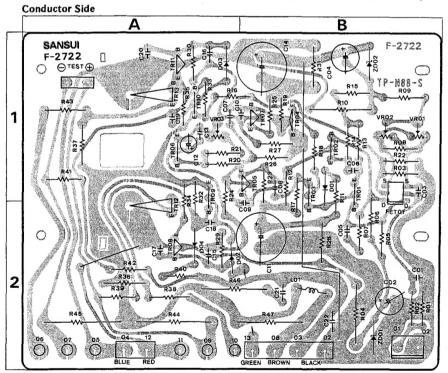
1033570

1035310

VR01

VR03

3-4. F-2722 R-ch Driver Amp Circuit Board (Stock No. 7572121)



 Transistors 			
TR01.02		2SC1400 (1) E.U	1B
TR03		2SA750 (3) E, U	
TR05	0300090, 1	2SA899 B, V	1B. 1B
TR06	0300791,2	2SC945 Q,P	1A
TR07	0305951,2	2SC1904 B, V	1B.2A
TR09	0305051.2	2SC945 Q, P	1A.2A
	0305951, 2	2\$D382 M, L, K	IA.ZA
TR 12 TR 13			
IHIS	0303271 ~ 3	2SB537 M, L, K	1A
◆FET			
FET01	0370311.2	2SK129 L.M	1B
Diodes			
D 01,02			18.2A
D 04	0311160	1S2473D	2A
•Zener Diod			
ZD01,02		EQA01-22R	00.10
2001,02	0316060	EUAU1-22R	2B.1B
C 01	0621101	100pF 50V P.C.	2B
C 05			2B
C 07	0669505		1A
R 04	0212272		2B
R 09	0200392		1B
R 10			18
R 17,19		1.2kΩ 1/2W N.I.R.	1,2B.18
R 23,25	0191151		18
R 28,31	0210330		2B.1B
R 36,37	0210221		2A.1A
R 38,43			2A.1A
	0135338	0.33Ω 5W Ce.R.	
R 46			2A, B
R 47	0212229	2,2Ω 2W N.I.R.	2B
L 01	4210290	1.5µF RF Coil	2B

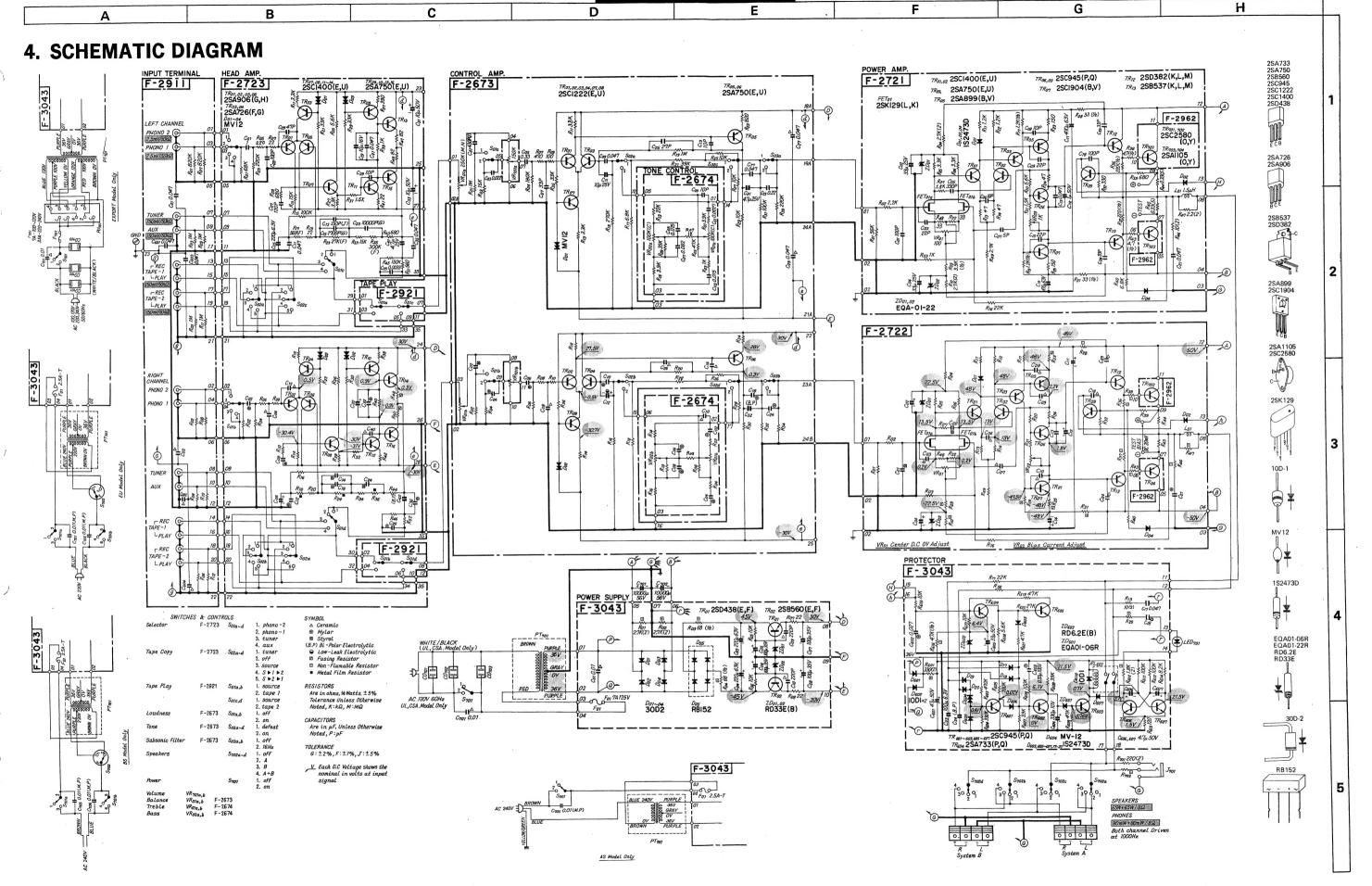
100Ω (B) DC 0V

Adjust VR
1kΩ (B) Bias Current
Adjust VR

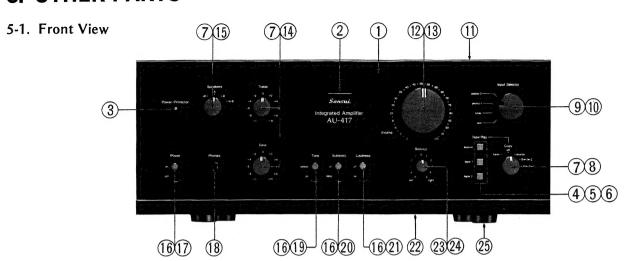
1R

1A

Description



5. OTHER PARTS



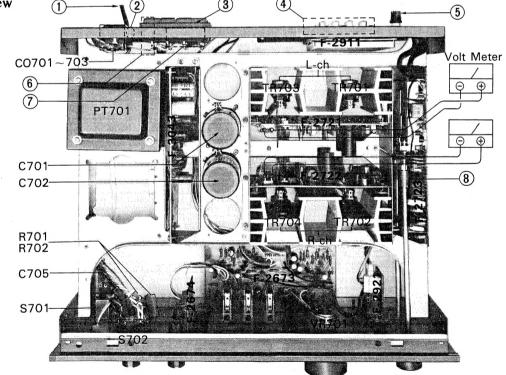
Parts List

Parts No.	Stock No.	Description
1	7008270	Front Panel Ass'y
2	5336600	Sansui Badge
3	0319120	LED
4	5326620	Knob, push switch
5	5286721	Knob Guide, Push Switch
6	6906480	Spring, push switch
7	5318930	Knob, tape copy, speakers, treble, bass
8	1190410	Rotary Switch, tape copy
9	5318920	Knob, selector

Parts No.	Stock No.	Description
10	1190420	Rotary Switch, Input Selector
11	5006821	Bonnet
12	5318910	Knob, Volume
13	1011180	150kΩ x 2 Volume
14	1015360,1	100kΩ (C) x 2 Treble, Bass Volume
15	1101470,1	Rotary Switch, speakers
16	5326612	Knob, lever switch
17	1171630	Lever Switch, power
18	2430290	Head Phone Jack Socket

Parts No.	Stock No.	Description
19	1171150	Lever Switch, tone
20	1171120	Lever Switch, subsonic filter
21	1171120	Lever Switch, loudness
22	5059170	Bottom Plate
23	5318940	Knob, balance volume
24	1015340, 1	250kΩ (MN) x 2 Balance Volume
25	5507070	Leg

5-2. Top View



Parts List

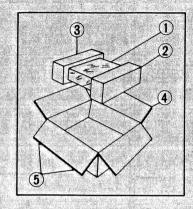
Stock No.	Description	Parts No.	Stock No.	
3800470	Power Cord		(2410091	_
3910490	Strain Relief	/	12410830	
2290190	Speaker Terminal	8	6046041	
2200620	4P Input Terminal (PHONO-1, 2) 4P Input Terminal			
2230190 2300060	Ground Terminal. Power Fuse Holder	C 701,70 C 705	2 0559385 0659801	
	3800470 3910490 2290190 2200620 2200580 2230190	3800470 Power Cord 3910490 Strain Relief 2290190 Speaker Terminal 2200620 4P Input Terminal (PHONO-1, 2) 2200580 4P Input Terminal (TUNER AUX) (TAPE-1, 2) 2230190 Ground Terminal	3800470 Power Cord 7	3800470 Power Cord 7 2410091 3910490 Strain Relief 7 2410830 2290190 Speaker Terminal 8 6046041 2200620 4P Input Terminal (PHONO-1, 2) TR 701, 702 0306760, 1 2200580 4P Input Terminal TR 703, 704 0301110, 1 (TUNER AUX) (TAPE-1, 2) 2230190 Ground Terminal C 701, 702 0559385 C

Stock No.	Description	Pa
2410091 2410830 6046041	Voltage Selector, plug Voltage Selector, socket Shaft Joint	R P
0306760,1 0301110,1	2SC2580NLB G, Y 2SA1105NLB O, Y	v s
0559385 0659801	10000µF 56V E.C. 0.01µF 150V C.C.	S C

Parts No.	Stock No.	Description
R 701,702	0202221	220Ω 2W N.I.R.
PT 701	4002900	Power Transformer
VR701	1011180,1	150kΩ x 2 Volume
S 701 S 702	1172000 1101470, 1	Lever Switch, power Rotary Switch, speakers
CO701~703	2450070	AC Outlet

6. PACKING LIST

Parts No.	Stock No.	Description
1	9116790	Vinyl Cover
2	9028030	Styrofoam Packing (Right Side)
3	9028021	Styrofoam Packing (Left Side)
- 4	9001800	Carton Case
5	5996080	Curl Stopper



7. ACCESSORY PARTS LIST

Stock No.	Description
9204510	Operating Instructions
9238160 5396720	Schematic Diagram Rack Mounting Adaptor (each)

MEMO



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